INTERNATIONAL SEARCH REPORT

PCT/1B2004/050009

A. CLASSII IPC 7	G10L19/00 H04N1/32 G11B20/0	O G06T1/00		
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols)				
IPC 7	G10L H04N G11B G06T			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic da	ata base consulted during the international search (name of data bas	e and, where practical, search terms used)	
EPO-In	ternal, INSPEC, WPI Data			
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.	
X	J. FRIDRICH, M. GOLJAN AND R. DU: "Lossless Data Embedding for All Formats" PIE, SECURITY AND WATERMARKING OF MULTIMEDIA CONTENTS IV, vol. 4675, January 2002 (2002-01) 572-583, XP002277088 SAN JOSE, CA, USA cited in the application * section 2. General methodology lossless data embedding in digita objects*	, pages	1,9,10, 12,13, 17,24, 27,28	
Further documents are listed in the continuation of box C. Patent family members are listed in annex.				
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but		T' later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone of particular relevance; the claimed invention cannot be considered to involve an invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. 3' document member of the same patent family		
6 May 2004		07/06/2004		
Name and mailing address of the ISA		Authorized officer		
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016		Quélavoine, R		

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(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
X	FRIDRICH J ET AL: "INVERTIBLE AUTHENTICATION" PROCEEDINGS OF THE SPIE, SPIE, BELLINGHAM, VA, US, vol. 4314, 22 January 2001 (2001-01-22), pages 197-208, XP001189306 ISSN: 0277-786X *section 4. Invertible authentication using lossless bit-plane compression*	1,12,13, 17,24, 27,28	
P,X	using lossless bit-plane compression* M. VAN DER VEEN, F. BRUEKERS, A. VAN LEEST AND S. CAVIN: "High capacity reversible watermarking for audio" SPIE, SECURITY AND WATERMARKING OF MULTIMEDIA CONTENTS V, vol. 5020, 20 January 2003 (2003-01-20), pages 1-11, XP002277089 SANTA CLARA, CA, USA the whole document	1-28	